

1	MISCELLANEOUS	433	.With means to relatively rotate can and opener
1.5	NECKED RECEPTACLE SEAL CUTTERS	434	..Comprising means to rotate can
2	CARTON OPENERS	435	..Including sweep cutter
400	CAN OPENER	436	..With can support
401	.With control means energized in response to activator stimulated by condition sensor	437	..With can penetrating pivot
402	..Unicyclic reciprocating punch	438	...Variable cutter radius
403	..With stopping upon completion of cut	439	....Freely slidable cutter
404	...Responsive to reaction force between can and cutter	440	.....Cutter comprising rotatable disc
405	..Responsive to can	441	....Cutter comprising rotatable disc
406	.With sanitizer	442	..With means to grip can
407	.Including spout former	443	..Including punch
408	.With other cutlery means	444	..With prime mover to drive cutter relative to can
409	.Adapted for right or left hand operation	445	..Peripheral punch
410	.With lid retainer or lifter	446	..Plural-spaced cutting edges
411	.With can closure means	447	...With can support
412	..Including plural independent cutters	448	..With can support
413	..Progressive fulcrum	449	..Traversing punch
414	..Including punch	450	..And fulcrum
415	..Including plural sequentially operated cutters	26	MANICURE
416	.With driven roller to continuously engage bead and relatively rotate can and opener	27	.Guarded edge
417	..Side cut	28	.Nippers
418	...Cutter comprising driven disc	29	.Shears
419	..With means enabling quick release of cutter	29.5	HAIR CUTTERS FOR INSIDE NOSE OR EAR
420	..Roller drive means causes initial piercing	30	HAIR PLANERS
421	...Including prime mover	31	.Convertible
422	...Cutter comprising rotatable disc	32	RAZORS
423	..Including prime mover	34.05	.Combined
424	...Cutter comprising rotatable disc	34.1	..With additional cutter means
425	....Driven disc	34.2	..With means to raise the hair and/or stretch the skin
426	..Cutter comprising rotatable disc	35	..With means to facilitate sharpening
427	...Driven disc	36	...Permanently attached sharpener
428	..Including shear couple	37	...Means for holding or guiding sharpener
429	..Progressive fulcrum	38	....Blade-shifting mechanism
430	..Side cut	39	.....Safety impulse
431	..Cutter pivoted to reaction member	40	..With blade magazine
432	..With guide	40.1	...Strip feed
		40.2	...Detachable magazine
		41	..With waste-collecting, razor-cleaning and/or dispensing
		41.5	...With fluid-current disposal means
		41.6	...Hair-collecting means
		41.7	..With blade usage indicator
		41.8	..With blade flexure indicator
		41.9	.With cooperating nipping blades

43	.With cooperating shearing blades	76	..Corner construction
43.1	..With razor-adjusting means	77	..Guards
43.2	...Adjusting spacing between blades	78	...Blade-supported
43.3	..With compound movement of blade	79	....With relative blade and guard adjustment
43.4	..Rotary blade	80	.....Rail guard
43.5	...Rotary inner blade	81	...Edge structure
43.6	....And stationary outer blade	82	....Modified teeth
43.7	..Oscillating blade	83	...Rail
43.8	...Oscillating inner blade	84	..Caps
43.9	....And stationary outer blade	526	.Including particular handle or razor handle, per se
43.91	..Reciprocating inner blade	527	..Having pivotal connection to blade
43.92	...And stationary outer blade	528	...With blade extending longitudinally to handle
44	..Vibratory	529	...Ball and socket joint
45	...Electric	530	...Slotted pintle
46	...Traction	531	...Including separate means to retain joint in selected position
47	..Knockdown and/or folding	532	...With means to facilitate assembly and disassembly of blade head from handle
48	..Inclined edge	533	....Retractable pintle with limited motion
49	..Curved edge	534	..Having threaded connection means between blade head and handle
50	..Multiple blade	535	..Having receptacle
51	..Detachable blade, guarded cutting edge	536	...Providing blade supply
52	..Tensioned blade edge	537	.Attachment or accessory
53	..Longitudinal or old style	538	..Blade conditioner (e.g., lubricator)
54	...With relative blade and guard adjustment	539	..Protective blade cover
55	...Separable guard	540	...Made of flexible material
57	..Pivoted blade	541	..Razor holder or storage receptacle
58	..Pivoted cap	451	STATIC PENCIL SHARPENER
59	...Multiple guard	452	.Plural, sequentially engaged cutters
60	....With operator and relative blade and guard adjustment	453	.With debris receiver
60.5	.....Sectional cap	454	..Conical or cylindrical work guide
61	...With operator and relative blade and guard adjustment	455	..Surface type cutter
62	..Slidable blade	456	.Work piece drawn over transverse, single edge cutter
63	...With relative blade and guard adjustment	457	.Having conical or cylindrical work guide
64	...With blade lock	458	..And mounting base or handle
65	...Multiple guard	459	...With diverse feature
66	..Slidable lock	460	..Open-ended for point protection during writing
67	..Hook and lock		
68	..Bolt-connected		
69	...Threaded		
70	....Multiple guard		
71	.....With relative blade and guard adjustment		
72	.....Flexible blade		
73	.....Spaced guard edge		
74	..Magnetic		
74.1	..Multiple guard		
75	..Aligning means		

461	..Adjustable or resilient cutter structure	99	....Ratchet
462	.Surface type cutter	100	....Chain link type
475	POWERED PLANER	101	....Disc cutter
476	.With rolling supports (e.g., wheels, casters)	102	...Disc cutter
477	.Tool rotates about axis perpendicular to work	103	..Internal
478	BENCH PLANE	104	...Eccentrically pivoted
479	.Core box former type	105	...Slidably projected
480	.Strip cutter	106	....Wedge
481	.With gauge or guide	107	.....Screw feed
482	.Having plane extension	108	...Pivoted lever mounted
483	.With lubricant dispenser	109	CIGAR TIP CUTTERS
484	.To form configured or beveled surface	110	.Rotary power source
485	..Changable	111	.Hand
486	..Recess forming	112	..Pivoted blade
487	.Having means for adjusting cutting blade	113	..Reciprocating blade
488	..Pivoted lever and screw	113.1	CORE-PIT REMOVERS
489	..Screw	113.2	.Including pivoted tool-pair members
490	.Adjustable mouthpiece	113.3	.Combined
491	.Handle or handle attaching means	114	SEGMENTERS
492	.Cutting blade clamp	115	PLASTIC MATERIAL CUTTERS
493	.Cutting blade	116	.Wire
494	BILLIARD CUE TRIMMER	117	..Plural
495	CYLINDRICAL TENON CUTTER	118	BUTTONHOLE TYPE
90.1	MEANS FOR CUTTING ELONGATE, STRAND-ENCIRCLING SHEATH	119	.With punch
90.2	.Helically wound metal sheath	120	.Shears
90.3	..Including rotary cutter	120.1	SHELL OPENERS
90.4	.Longitudinally	120.2	.Nutcrackers
90.6	..With additional means for cutting sheath other than longitudinally	120.3	..Arcuately moved jaws
90.7	..Adjustable to also cut sheath other than longitudinally	120.4	...Plural or relatively movable pivot
90.8	..With cutter-opposing, sheath-engaging surface	120.5	..Lever-actuated jaws
90.9	...Roller surface	358	PERFORATING OR INDENTING IMPLEMENTS
91.1	...Pivotally connected to cutter	359	.Combined with other type cutter
91.2	.With cutter-opposing, sheath-engaging surface pivotally connected to cutter	360	.With portion positioned in work aperture
92	PIPE AND ROD CUTTERS	361	.Work-mounted
92.5	.Adapted to cut pipe or rod longitudinally	362	.Hand-guided, motor-driven
93	.Rotary	363	.Pivoted handles
94	..External	364	..Turret of tools
95	...Pipe- or rod-encircling	365	.Traveling roller
96	....With clamping means	366	.Pointed
97	.....Rotary power source	367	..With impact drive
98	.....Ratchet	368	..With stripper, sheath or gauge
		121	TREE HACKS
		121.5	CORN STRIPPERS
		122	CONVERTIBLE
		123	COMBINED CUTLERY OR COMBINED WITH ANCILLARY FEATURE
		123.3	.With means to apply transient fluid to tool
		123.4	..To chain saw chain or guide therefor

123.5	.With skin-removal means	166.3	.Saw
123.6	..Including relatively movable parts	369	..Including contiguous oppositely moving blade portions
123.7	..Including a pointed blade	370	..With work-underlying guard means
124	.With material-holder or disposal	371	..With work-engaging member
125	..Handle receptacle	372	...Affixed to work
127	..Twine guide	373	...Slidable guide plate parallel to saw blade
128	..Ejectors or strippers	374	...Slidable guide plate intersected by saw blade
129	...Fork	375	....Including relatively adjustable saw blade and guide plate
130	...Annular cutter	376	.....To vary angle between saw and guide plate
131	..Shears	377	.....To vary projection of saw blade
132	...Multiple shearing position	378	...Including means to press work to saw blade
133	....Suction-disposal means	379	..On vehicle moved during cutting
134	...Grip type	379.5	..On vehicle, moved relative thereto during cutting
135	....Spring-opened	380	..Band
136	..Knives and scrapers	381	..Chain
136.5	...With closure or portable receptacle support	382	...With guard means
137	..Forks	383	...With guide bar for cutting span
138	.With sharpening feature	384	....Including nondriving guide pulley
139	..Rotary sharpener	385	.....And means to adjust guide pulley relative to guide bar
140	.With heater	386	....Including means to adjust guide bar relative to its support
141	.Spoons with fluid conductors	387	....Multisectioned guide bar
142	.Cutlery	388	..Rotary
143	..Sheathed	389	...With peripheral drive means
144	..Saws	390	...With guard means
145	..Nippers and shears	391	....Movable to nonguarding position
146	..Shears and knives	392	..With means to reciprocate saw
147	..Knives, forks, and spoons	393	...In uniplanar compound path
148	..Knives and forks	394	...Including connecting rod articulated with saw blade or support
149	..Knives and spoons	501	..Having plural cutting edges
150	..Forks and spoons	502	...Oppositely directed cutting edges
151	SHEATHED	503	...Simultaneously cutting
152	.Plural blade	503.5	....Parallel cutting
153	.Folding sheath	504	..Having tooth or blade protective or strengthening means
154	.Compound blade movement		
155	.Pivoted blade		
156	..Detachable blade type		
157	...End tang connected		
158	..With blade-opening means		
159	...Spring-opened		
160	...Locked blade		
161	..Locked blade		
162	.Sliding blade		
163	..Gravity-opened		
164	.Elements		
164.5	ICE PICK OR CHIPPER TYPE		
164.6	.With impact-moving means		
164.7	.With guard and/or guide		
164.8	.Plural points or edges		
164.9	SCRATCHING IMPLEMENTS		
164.95	.Having traction-rotated tool (e.g., glass cutters)		
165	CUTTING TOOLS		

505	..With gauge for limiting depth of cut	192	.....Handles interlinked or geared
506	..Mounted in truss frame (e.g., bucksaw)	193	.....Common pivot
507	..Mounted in U-frame	194	..Shears
508	...Offset blade	195	...Hair thinners
509	...Coping saw	196	...Multiple shearing position
510	...Extensible	197	....Multiplex
511	....Length and depth	198	....Body-supported
512	...Collapsible frame	199	....Adjustable angle
513	...Blade-tensioning means	200	....With cut regulator
514	..With accessory and handle	201	.....Adjustable
515	...Lubricant dispenser	202	.....Automatic
516	...Dust blower	203	....Convertible, power- or manual-operated
517	...Handle	204	....Compound blade movement
518	....Offset	205	....Rotary blade
519	....Angularly adjustable	206	.....With motor
520	....Double grip	207	.....With blade-tension means
521	....Spindle type (e.g., for double end cross-cut saw)	208	....Reciprocating and/or oscillating blade
522	.....Having side clamping plates	209	....Reciprocating or oscillating power source
523	.....Fastener passes through transverse passage in handle	210	.....With motor
524	.....Fastener passes through longitudinal extending passage in handle	211	.....Pivoted handles
525	....Scroll type	212	.....With spring return
168	..Cold chisels	213	.....And blade-tension means
167	..Chisel	214	.....With blade-tension means
167.1	..Compound	215	....Rotary power source
167.2	..With gauge	216	.....With motor
169	..Scrapers	217	.....Crank or cam, pitman and lever
170	..Wheeled	218	.....Crank or cam, lever and slide
171	..Hoe type	219	.....Crank or cam and lever
172	..Plural blade	220	.....Crank or cam and slide
173	..Plural cooperating blades	221	....With blade-tension means
174	..Corer type	222	.....And friction reducing feature
175	..Nippers	223	....Blade assembly
176	...Multiplex	224	....With friction reducing feature
177	...Adjustable-position cutter	225	....Blades
178	...Form cutter	226	...Multiplex
179	...With guide and/or gauge	227	....With blade-moving means
180	...With motor	228	...With motor
181	...Compound blade movement	229	...Form cutter
182	...Reciprocating blade	230	....Zigzag
183	....Lever and cam	231	...With supports
184	....Lever and link	232	....Hand or finger
185	....Toothed slide and lever	233	...With guard, guide and/or gauge
186	...Pivoted blade	233.5	....Comb type
187	....With blade-moving means	234	...Spring joint
188	.....One movable blade	235	....Offset handles and blade
189	.....Lever and cam	236	....Detachable blade
190	.....Lever and link		
191	.....Pivoted handles		

237	...Compound blade movement	285	..Detachable guard
238	....One movable blade	286	.With guard and/or guide
239	....Intermediate pivot	287	..Plural blade or cutting edge
240	...Rotary blade	288	..Diverse kinds
241	...Reciprocating blade	289	..Blade or material guide
242	....Lever and link	290	...With support
243	....Toothed lever and slide	291	....Hand- or finger-supported
244	...Pivoted blade	292	...Traveling roller blade
245	....With blade-moving means	293	...Adjustable
246	.....Push or pull type	294	...Push or pull type
247	.....Rotary power source	295	..Hand guard
248	.....Offset blade and handle	296.1	.With support or attaching means
249	.....One movable blade	297	..Leg- or foot-supported
250	.....Pivoted handle	298	..Hand- or finger-supported
251	.....Lever and connecting link	298.4	..Nonuse support
252	.....Pivoted handles	299	.Plural blade
253	....End pivot	300	..Sweep cutter
254	....Intermediate pivot	301	..Annular blade
255	.....Foldable	302	...With radiating or crossed blades
256	.....Right or left hand		
257	.....Offset blade and handle	303	..Radiating or crossed blades
258	.....Blade and slot	304	..Parallel blades
259	.....Offset pivot	305	...Push or stamp type
260	.....Detachable blade and handle	306	..Traveling roller cutter
261	.....Spring opened or closed	307	...Disc blade
262	.....With latch	308	.Cleaver type
263	..Rotary blade	308.1	.Hatchet, ax, or adze
264	...With motor	308.2	..Foldable to cover bit
265	...Two rotary blades	308.3	..Detachable bit
266	..Joints and blade-tension means	309	.Sickle or scythe type
267	...With friction-reducing feature	310	.Sweep cutter
268	...Spring tension	312	.Plural handle or grip
269	....Threadless pin type	313	..Draw knives
270	...Nut lock type	314	.Push and/or pull type
271	..Stops and bumpers	315	..Push or stamp type
272.1	.With blade moving means	316	...Annular blade
273	..Base-supported	317	..Pull type
274	...Band knife	318	.Swing stroke type
275	...With presser foot	319	.Traveling roller blade
275.4	.With support or attaching means	320	.Adjustable blade
276	..Rotary blade	321	..Pivoted
277	..Impact	322	FORKS
277.4	..Including a motor	323	.With hand guard and/or support
278	.With material receiving opening	324	SPOONS
279.2	..Plural blade or cutting edge	325	.Perforated
279.4	...Swinging-stroke vegetation cutter	326	.With cover and/or guard
279.6	...Border of opening limits cutting depth, e.g., peeler	327	.With support
		328	.Reinforced
280	..Push or pull type	329	HOLDERS FOR DETACHABLE BLADES
281	...Spoke shave type	330	.Pivoted part
282	..With blade guide	331	..End pivot
283	..Adjustable	332	.Knockdown holders
284	...Detachable guard	333	..One movable side
		334	.U-strap holder

335 .Sliding-blade assembly
 336 ..Spring jaw type
 337 .Interlocked blade and holder
 338 ..Spring jaw type
 339 ..Apertured blade
 340 **HANDLES AND BLADE CONNECTIONS**
 341 .Shear or nipper type
 342 .Blade connections
 343 ..Cast-on handle
 344 ..Welded, riveted or bolted
 345 **MATERIALS**
 346 **BLADES**
 346.5 .Razor blade
 346.51 ..Cutting couple element
 346.52 ..Having indicia
 346.53 ..Of specific material
 346.54 ...Including metallurgical
 characteristic
 346.55 ..Including details of cutting
 edge
 346.56 ...Toothed or waved edge
 346.57 ..Having three or more cutting
 edges
 346.58 ..Composite razor blade
 346.59 ...Interfitting sections
 346.6 ..Reinforces
 346.61 ..Apertured, notched or lugged
 347 .Rotary
 348 .Reinforced
 349 .Detachable cutting edge
 350 .Metallurgical feature
 351 .Apertured, notched or lugged
 352 .Reamer type
 353 .Plural cutting edge
 355 .Toothed or waved
 356 .Longitudinally curved
 357 .Edge structure
 500 **IMPLEMENTS ADAPTED TO BE DRIVEN
 BY DETACHABLE PORTABLE POWER-
 DRIVE MEANS (E.G., ELECTRIC
 DRILL)**

FOREIGN ART COLLECTIONS

FOR 000 CLASS-RELATED FOREIGN DOCUMENTS

Any foreign patents or non-patent literature from subclasses that have been reclassified have been transferred directly to FOR Collections listed below. These Collections contain ONLY foreign patents or non-patent literature. The parenthetical references in the Collection titles refer to the abolished subclasses from which these Collections were derived.

RAZORS (30/32)

FOR 100 .Handles (30/85)
 FOR 101 ..Receptacle (30/86)
 FOR 102 ..Pivoted (30/87)
 FOR 103 ..Longitudinal (30/88)
 FOR 104 ...Angularly adjustable handle
 and head (30/89)
 FOR 105 .Attachments and accessories (30/
 90)

DIGESTS

DIG 1 **RECHARGEABLE BATTERY OPERATED**
 DIG 2 **DRY SHAVERS**
 DIG 3 **ENVELOPE OPENERS**
 DIG 4 **EXPLOSIVE**
 DIG 5 **LAWN EDGERS**
 DIG 6 **RESILIENT MEANS**
 DIG 7 **SPRINKLER AND CUTTER**
 DIG 8 **SEAM RIPPERS**

